BRUHAT BENGALURU MAHANAGARA PALIKE

STORM WATER DRAIN DASARAHALLI ZONE

AME OF WORK : CONSTRUCTION OF SWD U SHAPE DRAIN AT ABBIGERE POLICE STATION OAD TO JUICE FACTORY IN WARD NO.12

ABSTRACT

l. o.	Description of work	Unit	Quantity	Rate	Amount
1	**KSRRB M200-12.3.** Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. C. Prestressed / **Reinforced cement concrete grade M-20 & above.** MORTH Specification No. 202				
	PWD Bangalore SR 2018-19 Page No.139, Item No.18.19	Cum	85.60	1716.12	146899.87
2	**KSRRB M200-15.2.** Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. iii) **Dismantling Stone Masonry.B. Rubble stone masonry** in cement mortar. MORTH Specification No. 202 (SR 18-19 Item no 18.27 & Page No 140)				
	PWD Bangalore SR 2018-19 (Item no 18.27 & Page No 140)	Cum	13.50	379.08	5117.58
3	KSRRB M200-11.1. Clearing and grubbing road land including uprooting rank vegetation, grass, bushes, shrubs, saplings and trees girth up to 300 mm, removalof stumps of trees cut earlier and disposal of unserviceable materials and stacking of serviceable material to be used or auctioned, including removal and disposal of top organic soil not exceeding 150 mm in thickness complete as per specifications. II. By Mechanical Means: A. In area of light jungle.				
	PWD Bangalore SR 2018-19 Page No.139, Item No.18.16	Ha	0.20	20008.08	4068.50
4	**Diversion of Water** course by providing coffer dams or bunds or islands as may be necessary for pipes and abutments, foundations, bailing out or pumping water during exavation and until completion etc., complete beyond 1.5m depth upto and including 3m depth				
	(SR 18-19 Item no 37.41.2 & Page No 269)	Cum	269.93	425.52	114860.61

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No.	Description of work	Unit	Quantity	Rate	Amount
5	**KSSRB M2100-5.2** Earth work in Excavation in Marshy soil for foundation of structures as per drawing and technical specifications, including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved material complete as per MORTH specification No.304 V. **upto 3m depth By mechanical means**				
	Page No.221, Item No. 27.13	Cum	2089.86	200.10	418180.99
6	**KSSRB M2100-2.1** Earth work in Excavation for foundation of structures as per drawing and technical specifications, including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved material complete as per MORTH specification No.304 B. in **Ordinary soil upto 3m depth(By mechanical means)**				
	PWD Bangalore SR 2018-19 (SR 18-19 Item no 27.4 & Page No 220)	Cum	6324.81	59.00	373163.79
7	**KSRB 2.8** Providing and filling in foundation with granite/trap broken metal of **100 MM and down size**, with approved sand including hand packing, ramming, watering, including cost of all materials and labour charges and with all lead and lift etc complete as per specification and the direction of the Engineer in charge				
	PWD Bangalore SR 2018-19 Page No.7, Item No.2.15	Cum	954.03	2623.32	2502725.98
8	**KSRB 2.8 :** Providing and Filling in foundation with granite I trap broken metal 100mm of available boulders with down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift. complete as per specifications.specification. No. KBS				
		Cum	8.10	1009.41	8176.23

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No.	Description of work	Unit	Quantity	Rate	Amount
9	**KSRRB M2100-13** - Plain Cement Concrete **1:2:4** with OPC cement @ 240 kgs, with 40mm and down size graded granite metal coarse aggregates @0.84 cum and fine aggregates @ 0.56cum, in open foundation including cost of all materials, labour, HOM curing, from works, scaffolding and centring complete as per Specification complete as Drawing and Technical Specifications. MORTH Specification No.1500, 1700 & 2100				
	PWD Bangalore SR 2018-19 Page No.222, Item No.27.24	Cum	584.57	5511.24	3221705.57
10	**KSRRB M2100-17.2.** Providing and laying Plain / Reinforced Cement Concrete design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70cum and fine aggregates @ 0.47cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008,**Open Foundation** complete as per Drawing and Technical Specification including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per Specifications. MORTH Specification No. 1500,1700 & 2100				
	PWD Bangalore SR 2018-19 Page No.223, Item No.27.29	Cum	1189.95	5394.60	6419304.27
11	**KSRRB M2200-5.12.** Providing and laying Design mix M25 with OPC @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.7cum and fine aggregates @ 0.47cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 **- i) Upto 5m height (For Substrucrure)**				
	PWD Bangalore SR 2018-19 Page No.227, Item No.28.7.12	Cum	1073.30	5746.68	6167911.64
12	**KSRRB M2200-8.** Providing **weep holes** in Brick masonry / Plain / Reinforced concrete abutment, wing wall / return wall with 100 mm dia AC pipe, extending through the full width of the structure with slope of 1V :20H towards drawing force. Complete as per drawing and Technical Specifications including cost of materials, labour, HOM complete as per specifications. MORTH Specification No.2706 & 2200 (Item no 28.10 & Page No-229)				
	PWD Bangalore SR 2018-19 (Item no 28.10 & Page No-229)	Mtr	528.33	158.76	83877.67
13	**KSRRB M100-1** Loading and Unloading of Stone Boulder / Stone aggregates /Sand/ Kanker / Moorum. KSRRB M100-1 : Placing tipper at loading point, loading with front end loader,dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications.				
	PWD Bangalore SR 2018-19 (Item no 17.1 & Page No-136)	Cum	8513.77	130.68	1112579.46

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o.	Description of work	Unit	Quantity	Rate	Amount
4	**KSRRB M2600-3.** (ii) Providing & fixing 250 mm wide, 20 mm thick compressible **fibre board** in expansion joint complete as per drawing & Technical Specification including cost of materials, labour, HOM complete as per specifications. MORTH Specification No. 2605				
	PWD Bangalore SR 2018-19 (Item no 31.3 & Page No-244)	Mtr	251.90	128.52	32374.19
15	**KSRRB M2200-9.** Providing and laying of **Filter media** with granular materials /stone crushed aggregates satisfying the requirements laid down in clause 2504.2.2. of MORTH specifications to a thickness of not less than 600 mm with smaller size towards the soil and bigger size towards the wall and provided over the entire surface behind abutment. wing wall and return wall to the full height compacted to a firm condition complete as per drawing and Technical Specification including cost of materials, labour, HOM complete as per specifications.MORTH Specification No. 2504.2.2 (Item no Item no 28.13 & Page No-229)				
	PWD Bangalore SR 2018-19 (Item no Item no 28.13 & Page No-229)	Cum	191.83	2258.28	433205.85
16	**KSRRB M2100-19.2.** Providing and laying Plain / Reinforced Cement Concrete in **open foundation wih OPC design mix M30** @ 360kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregates @ 0.46cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 complete as per Drawing and Technical Specification including cost of all materials, labour, HOM curing, form works, scaffolding and centeringcomplete as per Specifications. MORTH Specification No. 1500,1700 & 2100				
	PWD Bangalore SR 2018-19 (Item no 27.33 & Page No-223)	Cum	492.60	5490.72	2704728.67
17	**KSRRB M2200-5.15.** Providing and laying Design mix M30 with OPC @ 360kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregates @ 0.46cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 including cost of materials, labour, HOM curing, form works, scaffolding and centering complete as per **specifications. - i) Upto 5m height (For Substrucrure)**				
	PWD Bangalore SR 2018-19 Page No.228, Item No.27.7.15	Cum	341.22	5848.20	1995522.80

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No.	Description of work	Unit	Quantity	Rate	Amount
18	**KSRRB M2300-5.1.** Providing and Placing Reinforced / Prestressed cement concrete in **Super-Structure** as per drawing and Technical Specification complete as per specifications. C. RCC with OPC cement design mix M30 @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregates @ 0.46cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008,including cost of materials, labour, HOM, curing, form works, scaffolding and centering complete as per specifications. MORTH Specification No. 1500,1600 & 1700. Height upto 5 m				
	PWD Bangalore SR 2018-19 Page No.233, Item No.29.9.1	Cum	509.93	7099.92	3620462.21
19	**KSRRB M2200-6.** Providing **T.M.T. steel reinforcement for R.C.C.** work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per disign (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification.MORTH Specification No.1600 & 2200 TMT Bars Fe 500 (For Sub Structure)				
	PWD Bangalore SR 2018-19 Page No.229, Item No.28.8.2	MT	295.41	73691.64	21769247.37
20	**KSRRB M2300-14. Providing T.M.T. steel reinforcement for R.C.C.** work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) including cost of materials, labour, HOM complete as per specifications. MORTH Specification No. 1600 & 2200 -do- TMT Bars Fe 500 (For Super Structure)				
	PWD Bangalore SR 2018-19 Page No.239, Item No.29.29.2	MT	56.09	75388.32	4228530.87
21	KSRRB M2700-7. Reinforced cement concrete **M30 Approach slab** including reinforcement @ 70 kg/cum and formwork complete as per drawing and Technical specification including cost of materials, labour, HOM complete as perspecifications. MORTH Specification No.1500, 1600, 1700 & 2704(Item no 32.7 & Page No-247)				
	PWD Bangalore SR 2018-19 (Item no 32.7 & Page No-247)	Cum	81.15	10757.88	873001.96

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No.	Description of work	Unit	Quantity	Rate	Amount
22	**KSRRB M2300-16**. Providing and laying Cement concrete **wearing coat with OPC** cement design mix M30 @ 360 kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes@ 0.46cum, and reinforcement at 75 kg/cum with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 including cost of reinforcement complete as per drawing and Technical Specifications including cost of materials, labour, HOM complete as per specifications. MORTH Specification No. 2702 (Item no 32.8 & Page No 247)				
	PWD Bangalore SR 2018-19 (Item no 32.8 & Page No 247)	Cum	50.18	11124.00	558202.32
23	**KSRB 15-15.1 :** Providing and applying painting in **two coats with plastic emulsion paint** of approved brand on wall surface to give an even approved shade after thoroughly brushing the surface, free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications. With Primer (Item no 15.51.2 & Page No 119)				
	PWD Bangalore SR 2018-19 (Item no 15.51.2 & Page No 119)	Sqm	10.59	93.96	995.04
24	Supplying and fixing **M.S. Rectangular poles** made out of 2 equal angles of 65x65x6 mm welded together and fixed in CC (1:2:4) WITH 2 NOS 16mm dia M.S. hold fast rods each of length 25 cms. Including cost of all materials cutting, bending scaffolding wherever necessary, nicely finishing the welded joints with all lead lifts and as per the directions of the Engineer-in - charge of the work and including providing 2 coats of approved quality paint over one coat of shop painting (excluding cost of earthwork and concrete) including cost of materials, labour, HOM complete as per specifications. (Item no 37.2 & Page No-266)				
	PWD Bangalore SR 2018-19 (Item no 37.2 & Page No-266)	Mtr	669.35	910.54	609469.95

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Sl. No.	Description of work	Unit	Quantity	Rate	Amount
25	Providing and fixing **M.S. Block pipe of 38mm dia**, of heavy guage of 14 including removing the bends, cutting the pipe, and fixing pipe in between the existing two verticle poles (M.S. rectangular poles) and spot welding the chain link with M.S. block pipe including cost of all materials wastage in cutting,and scaffolding wherever necessary with all lead and lift as directed by the Engineer-in-charge of work etc., complete including two coats of approved quality paint over one coat of shop paint, including cost of materials, labour, HOM complete as per specifications.(Item no 37.4 & Page No-266)				
	(Item no 27.4 & Page No 219)	Mtr	5334.80	432.48	2307194.30
26	Providing **chain link fencing 50mm size of 8 guage** properly stretched between existing rectangular poles and fixed with suitable bolts & nuts, the free ends shall be welded to the pole and block pipe at top and bottom as required including cost of all materials, labour, lead and lifts and as per thedirections of the Engineer-in-charge of work including two coats of approved quality paint over one coat of shop paint, including cost of materials, labour, HOM complete as per specifications. (Item no 37.3 & Page No-266)				
	(PWD Bangalore SR 2018-19 Item no 37.3 & Page No-266)	Sqm	1667.13	757.90	1263517.83
				SUB TOTAL	60975025.52
	Works contract GST 12% as per 2018-19 PWD BC SR Note.5 as per Govt Letter No.PWD 65 RDF 2017,Dated 11-10-2018				7317003
				SUB TOTAL.	68292028.52
	Provision for **PMC charges at 2 %** of sub total amount				1,365,840.00 → 1,359,000.00
				Sub Total	69651028.52
	Shifting of utility services, electric poles,Transformers, water supply line, UGD Lines and Conducting Survey work etc,. Miscelenious & Rounding off				342131.48 → 348971.48
				GRAND-TOTAL	70000000.00

Assistant Executive Engineer,
SWD, Dasarahalli Zone,
BBMP, Bengaluru.

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SWD, Dasarahalli Zone,
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BRUHAT BENGALURU MAHANAGARA PALIKE

STORM WATER DRAIN DASARAHALLI ZONE

NAME OF WORK : CONSTRUCTION OF SWD U SHAPE DRAIN AT ABBIGERE POLICE STATION ROAD TO JUICE FACTORY IN WARD NO.12

SL. NO.	DESCRIPTION OF WORK	UNIT	Nos	L	B	D	QTY	Rate (Rs.)	Amount (Rs.)
1	2	3	4	5	6	7	8	9	10
1	KSRRB M200-12.3. **Dismantling of existing structures** like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. **C. Prestressed / Reinforced cement concrete grade M-20 & above.** MORTH Specification No. 202								
	PWD Bangalore SR 2018-19 Page No.139, Item No.18.19								
	Culvert top Slab	Cum	4	8.00	7.00	0.35	78.40		
	Parapet Wall		2	12.00	0.25	1.20	7.20		
						Total	**85.60**	1716.12	146899.87
2	**KSRRB M200-15.2. Dismantling of existing** structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. iii) Dismantling Stone Masonry.B. **Rubble stone masonry in cement mortar.** MORTH Specification No. 202 (SR 18-19 Item no 18.27 & Page No 140)								
	PWD Bangalore SR 2018-19 **(Item no 18.27 & Page No 140)**								
	Drain wall Dismatling								
		Cum	2	10.00	0.45	1.50	13.50		
						Total	**13.50**	379.08	5117.58
3	KSRRB M200-11.1. Clearing and grubbing road land including uprooting rank vegetation, grass, bushes, shrubs, saplings and trees girth up to 300 mm, removalof stumps of trees cut earlier and disposal of unserviceable materials and stacking of serviceable material to be used or auctioned, including removal and disposal of top organic soil not exceeding 150 mm in thickness complete as per specifications. II. By Mechanical Means: A. In area of light jungle.								
	PWD Bangalore SR 2018-19 **Page No.139, Item No.18.16**								
	Cleaning	Sqm							
	Retaining Wall								
	CH: 0.00 to 300.00		1	300.00	4.00		1200.00		
	CH: 300.00 to 614.00		1	56.85	4.00		227.40		
	U-Shape Drain								
	625.00 to 780.00		1	155.00	7.50		1162.50		
	Culvert								
	Culverts (2 Nos) BP-114		2	7.00	7.50		105.00		
	Culverts (1 Nos) BP-114		1	28.00	7.50		210.00		
						Total	**2904.90**		
							871.47		
	Consider 30% of Voids					**Total**	**2033.43**		
						Total	0.203343	20008.08	4068.50

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Sl. No.	DESCRIPTION OF WORK	UNIT	Nos	L	B	D	QTY	Rate (Rs.)	Amount (Rs.)
4	**Diversion of water course by providing Coffer dams or bunds** or islands as may be necessary for piers and abutments foundations, bailing out or pumping water during excavation and until completion etc., complete. - - **beyond 1.50 mtrs depth upto & including 3m depth.**								
	PWD Bangalore SR 2018-19 Page No.269, Item No.37.41.2								
	RCC Retaining Wall								
	CH: 0.00 to 300.00	Cum	1	300.00	0.50	0.90	135.00		
	CH: 300.00 to 614.00		1	56.85	0.50	0.90	25.58		
	U-Shape Drain								
	625.00 to 780.00		1	155.00	0.50	0.90	69.75		
	Culvert								
	Culverts (2 Nos) BP-114		2	7.00	0.50	0.90	6.30		
	Culverts (1 Nos) BP-114		1	28.00	0.50	0.90	12.60		
	Box Drain D/S		1	40.00	0.50	0.90	18.00		
	Culvert Extension		1	6.00	0.50	0.90	2.70		
						Total	**269.93**	425.52	114860.61
5	"KSRRB M2100-5.2. **Earth work in excavation for foundation of structures** as per drawing and technical specifications, including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved material complete as per specifications. **"V. Marshy soil - B. Mechanical Means** MORTH Specification No. 304								
	PWD Bangalore SR 2018-19 Page No.221, Item No.27.13								
	RCC Retaining Wall	Cum							
	CH: 0.00 to 300.00		1	300.00	3.30	0.60	594.00		
	CH: 300.00 to 614.00		1	56.85	3.30	0.60	112.56		
	U-Shape Drain								
	625.00 to 780.00		1	155.00	7.50	0.60	697.50		
	Culvert								
	Culverts (2 Nos) BP-114		2	7.00	7.50	0.60	63.00		
	Culverts (1 Nos) BP-114		1	28.00	7.50	0.60	126.00		
	Box Drain D/S		1	40.00	12.00	0.90	432.00		
	Culvert Extension		1	6.00	12.00	0.90	64.80		
						Total	**2089.86**	200.10	418180.99
6	**KSSRB M2100-2.1** Earth work in **Excavation for foundation** of structures as per drawing and technical specifications, including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved material complete as per MORTH specification No.304 B. in **Ordinary soil upto 3m** depth(By mechanical means)(SR 18-19 Item no 27.4 & Page No 220)								
	PWD Bangalore SR 2018-19 **(SR 18-19 Item no 27.4 & Page No 220)**								
	RCC Retaining Wall	Cum							
	CH: 0.00 to 300.00		1	300.00	3.30	2.00	1980.00		
	CH: 300.00 to 614.00		1	56.85	3.30	2.00	375.21		
	U-Shape Drain								
	625.00 to 780.00		1	155.00	7.50	2.00	2325.00		
	Culvert								
	Culverts (2 Nos) BP-114		2	7.00	7.50	1.20	126.00		
	Culverts (1 Nos) BP-114		1	28.00	7.50	2.50	525.00		
	Box Drain D/S		1	40.00	12.00	1.80	864.00		
	Culvert Extension		1	6.00	12.00	1.80	129.60		
						Total	**6324.81**	59.00	373163.79

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SL. NO.	DESCRIPTION OF WORK	UNIT	Nos	L	B	D	QTY	Rate (Rs.)	Amount (Rs.)
7	KSBS 2.8 **Providing and filling in foundation with granite/trap broken metal of 200 MM** and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour charges and with all lead and lift etc complete as per specification and the direction of the Engineer in charge								
	PWD Bangalore SR 2018-19 Page No.7, Item No.2.15								
	RCC Retaining Wall	Cum							
	CH: 0.00 to 300.00		1	300.00	3.30	0.30	297.00		
	CH: 300.00 to 614.00		1	56.85	3.30	0.30	56.28		
	U-Shape Drain								
	625.00 to 780.00		1	155.00	7.50	0.30	348.75		
	Culvert								
	Culverts (2 Nos) BP-114		2	7.00	7.50	0.30	31.50		
	Culverts (1 Nos) BP-114		1	28.00	7.50	0.30	63.00		
	Box Drain D/S		1	40.00	12.00	0.30	144.00		
	Culvert Extension		1	6.00	12.00	0.30	21.60		
						Deduct 60% Quanty From Item No-2	8.10		
						Total	**954.03**	2623.32	2502725.98
8	KSBS 2.8 : **Providing and Filling in foundation** with granite / trap broken metal 100mm of available boulders with down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift complete as per specifications.specification. No. KBS								
	Deduct for 100 mm and down size stone agreegates for **available stone** at site after dismantling of SSM								
	PWD Bangalore SR 2018-19 Page No.7, Item No.2.15								
		Cum	Quanty From Item No-2						
						Total	8.10	1009.41	8176.23
9	**KSBSB M2100-13 -** Plain Cement Concrete **1:2:4** with OPC cement @ 240 kgs, with 40mm and down size graded granite metal coarse aggregates @0.84 cum and fine aggregates @ 0.56cum, in open foundation including cost of all materials, labour, HOM curing, from works, scaffolding and centring complete as per Specification complete as Drawing and Technical Specifications. MORTH Specification No.1500, 1700 & 2100								
	PWD Bangalore SR 2018-19 Page No.222, Item No.27.24								
	RCC Retaining Wall	Cum							
	CH: 0.00 to 300.00		1	300.00	3.30	0.15	148.50		
	CH: 300.00 to 614.00		1	56.85	3.30	0.15	28.14		
	U-Shape Drain								
	CH: 0.00 to 780.00		1	155.00	7.50	0.15	174.38		
	Culvert								
	Culverts (2 Nos) BP-114		2	7.00	7.50	0.15	15.75		
	Culverts (1 Nos) BP-114		1	28.00	7.50	0.15	31.50		
	Approach Slab								
	Culverts (2 Nos) BP-114		4	7.00	7.50	0.15	31.50		
	Culverts (1 Nos) BP-114		2	28.00	7.50	0.15	63.00		
	Box Drain D/S		1	40.00	12.00	0.15	72.00		
	Culvert Extension		1	6.00	12.00	0.15	10.80		
	Culvert Extension PCC		1	6.00	10.00	0.15	9.00		
						Total	**584.57**	5511.24	3221705.57

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Sl. No.	DESCRIPTION OF WORK	UNIT	Nos	L	B	D	QTY	Rate (Rs.)	Amount (Rs.)
10	**KSRRB M2100-17.2.** Providing and laying Plain / Reinforced Cement Concrete design mix **M25 with OPC cement @ 340kgs, with 20mm and down size** graded granite metal coarse aggregates @0.70cum and fine aggregates @ 0.47cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008,**Open Foundation** complete as per Drawing and Technical Specification including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per Specifications. MORTH Specification No. 1500,1700 & 2100								
	PWD Bangalore SR 2018-19 Page No.223, Item No.27.29 31								
	RCC Retaining Wall	Cum							
	Recangular Portion								
	CH: 0.00 to 300.00		1	300.00	3.30	0.30	297.00		
	Tripizoidal Portion								
			1	300.00	1.95	0.20	117.00		
	Recangular Portion								
	CH: 300.00 to 614.00		1	56.85	3.30	0.30	56.28		
	Tripizoidal Portion								
			1	56.85	1.95	0.20	22.17		
	U-Shape Drain								
	625.00 to 780.00		1	155.00	7.50	0.60	697.50		
							Total	**1189.95**	5394.60	6419304.27
11	**KSRRB M2200-5.12.** Providing and laying **Design mix M25** with OPC @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.7cum and fine aggregates @ 0.47cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 **- i) Upto 5m height (For Substrucrure)**								
	PWD Bangalore SR 2018-19 Page No.227, Item No.28.7.12								
	RCC Retaining Wall	Cum							
	CH: 0.00 to 300.00		1	300.00	0.400	5.00	600.00		
	CH: 300.00 to 614.00		1	56.85	0.400	5.00	113.70		
	U-Shape Drain								
	625.00 to 780.00		2	155.00	0.363	3.20	359.60		
							Total	**1073.30**	5746.68	6167911.64
12	**KSRRB M2200-8.** Providing **weep holes** in Brick masonry / Plain / Reinforced concrete abutment, wing wall / return wall with 100 mm dia AC pipe, extending through the full width of the structure with slope of 1V :20H towards drawing force. Complete as per drawing and Technical Specifications including cost of materials, labour, HOM complete as per specifications. MORTH Specification No.2706 & 2200 (Item no 28.10 & Page No-229)								
	PWD Bangalore SR 2018-19 (Item no 28.10 & Page No-229)								
	RCC Retaining Wall	Mtr							
	CH: 0.00 to 300.00		2 x 2	121.00	0.400		193.60		
	CH: 300.00 to 614.00		2 x 2	23.74	0.400		37.98		
	U-Shape Drain								
	625.00 to 780.00		2 x 2	155.00	0.363		224.75		
			2 x 2	40.00	0.45		72.00		
							Total	**528.33**	158.76	83877.67

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Sl. No.	DESCRIPTION OF WORK	UNIT	Nos	L	B	D	QTY	Rate (Rs.)	Amount (Rs.)
13	**KSRRB M100-1 Loading and Unloading** of Stone Boulder / Stone aggregates /Sand/ Kanker / Moorum. KSRRB M100-1 : Placing tipper at loading point, loading with front end loader,dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications.								
	PWD Bangalore SR 2018-19 **(Item no 17.1 & Page No-136)**								
		Cum	Quanty From Item No-				8513.77		
							Total **8513.77**	130.68	1112579.46
14	**KSRRB M2600-3**. (ii) Providing & fixing 250 mm wide, 20 mm thick compressible fibre board in expansion joint complete as per drawing & Technical Specification including cost of materials, labour, HOM complete as per specifications. MORTH Specification No. 2605								
	PWD Bangalore SR 2018-19 **(Item no 31.3 & Page No-244)**								
	RCC Retaining Wall	Mtr							
	CH: 0.00 to 300.00		11	8.60			94.60		
	CH: 300.00 to 614.00		3	8.60			25.80		
	U-Shape Drain								
	625.00 to 780.00		5	13.90			69.50		
	Extension Bridge		1	31.00			31.00		
	Box Drain D/S		1	31.00			31.00		
							Total **251.90**	128.52	32374.19
15	**KSRRB M2200-9.** Providing and laying of **Filter media** with granular materials /stone crushed aggregates satisfying the requirements laid down in clause 2504.2.2. of MORTH specifications to a thickness of not less than 600 mm with smaller size towards the soil and bigger size towards the wall and provided over the entire surface behind abutment, wing wall and return wall to the full height compacted to a firm condition complete as per drawing and Technical Specification including cost of materials, labour, HOM complete as per specifications.MORTH Specification No. 2504.2.2 (Item no Item no 28.13 & Page No-229)								
	PWD Bangalore SR 2018-19 (Item no Item no 28.13 & Page No-229)								
	RCC Retaining Wall	Cum							
	CH: 0.00 to 300.00		1	300.00	0.60	0.60	108.00		
	CH: 300.00 to 614.00		1	56.85	0.60	0.60	20.47		
	Culvert								
	Culverts (2 Nos) BP-114		4	7.00	0.60	0.60	10.08		
	Culverts (1 Nos) BP-114		2	28.00	0.60	0.60	20.16		
	Box Drain D/S		2	40.00	0.60	0.60	28.80		
	Culvert Extension		2	6.00	0.60	0.60	4.32		
							Total **191.83**	2258.28	433205.85

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	DESCRIPTION OF WORK	UNIT	Nos	L	B	D	QTY	Rate (Rs.)	Amount (Rs.)
	Culvert								
16	**KSRRB M2100-19.2.** Providing and laying Plain / Reinforced Cement Concrete **in open foundation with OPC design mix M30 @ 360kgs, with 20mm and down size** graded granite metal coarse aggregates @0.69cum and fine aggregates @ 0.46cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 complete as per Drawing and Technical Specification including cost of all materials, labour, HOM curing, form works, scaffolding and centeringcomplete as per Specifications. MORTH Specification No. 1500,1700 & 2100								
	PWD Bangalore SR 2018-19 (Item no 27.33 & Page No-233)								
	Culvert	Cum							
	Culverts (2 Nos) BP-114		2	7.00	7.50	0.60	63.00		
	Culverts (1 Nos) BP-114		1	28.00	7.50	0.60	126.00		
	Box Drain D/S		1	40.00	12.00	0.55	264.00		
	Culvert Extension		1	6.00	12.00	0.55	39.60		
						Total	**492.60**	5490.72	2704728.67
17	**KSRRB M2200-5.15.** Providing and laying Design mix **M30 with OPC @ 360kgs, with 20mm and down size** graded granite metal coarse aggregates @0.69cum and fine aggregates @ 0.46cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 including cost of materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. - **i) Upto 5m height (For Substructure)**								
	PWD Bangalore SR 2018-19 Page No.228, Item No.27.7.15								
	Culvert	**Cum**							
	Culverts (2 Nos) BP-114		**4**	**7.00**	0.45	**2.00**	25.20		
	Haunch		**8**	**7.00**	0.15	**0.30**	2.52		
	Culverts (1 Nos) BP-114		**2**	**28.00**	0.45	**2.00**	50.40		
	Haunch		**4**	**28.00**	0.15	**0.30**	5.04		
	Box Drain D/S		**3**	**40.00**	0.50	**3.50**	210.00		
	Haunch		**8**	**40.00**	0.15	**0.30**	14.40		
	Culvert Extension		**3**	**6.00**	0.50	**3.50**	31.50		
	Haunch		**8**	**6.00**	0.15	**0.30**	2.16		
						Total	**341.22**	5848.20	1995522.80
18	KSRRB M2300-5.1. Providing and Placing Reinforced / Prestressed cement concrete in **Super-Structure** as per drawing and Technical Specification complete as per specifications. C. RCC with OPC cement design mix **M30** @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregates @ 0.46cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 including cost of materials, labour, HOM, curing, form works, scaffolding and centering complete as per specifications. MORTH Specification No. 1500,1600 & 1700 **Height upto 5 m**								
	PWD Bangalore SR 2018-19 Page No.233, Item No.29.9.1								
	Culvert	**Cum**							
	Culverts (2 Nos) BP-114		2	7.00	7.50	0.60	63.00		
	Parapet Wall		4	7.50	0.25	0.90	6.75		
	Culverts (1 Nos) BP-114		1	28.00	7.50	0.60	126.00		
	Parapet Wall		2	7.50	0.25	0.90	3.38		
	Box Drain D/S		1	40.00	12.00	0.55	264.00		
	Culvert Extension		1	6.00	12.00	0.55	39.60		
	Culvert Extension		2	12.00	0.25	1.20	7.20		
						Total	**509.93**	7099.92	3620462.21

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Sl-No	DESCRIPTION OF WORK	UNIT	Nos	L	B	D	QTY	Rate (Rs.)	Amount (Rs.)
19	**KSRRB M2200-6.** Providing **T.M.T. steel** reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per disign (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification.MORTH Specification No.1600 & 2200 **TMT Bars Fe 500 (For Sub Structure)**								
	PWD Bangalore SR 2018-19 Page No.229, Item No.28.8.2								
	RCC Retaining Wall	MT							
	For Consider 90 Kg/cum		1	2263.25	0.090		203.69		
	Culvert								
	For Consider 110 Kg/cum		1	833.82	0.110		91.72		
							Total	**295.41**	73691.64	21769247.37
20	**KSRRB M2300-14.** Providing **T.M.T. steel** reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) including cost of materials, labour, HOM complete as per specifications. MORTH Specification No. 1600 & 2200 -do- **TMT Bars Fe 500 (For Super Structure)**								
	PWD Bangalore SR 2018-19 Page No.239, Item No.29.29.2								
	Culvert								
	For Consider 110 Kg/cum		1	509.93	0.11		56.09		
							Total	**56.09**	75388.32	4228530.87
21	**KSRRB M2700-7.** Reinforced cement concrete **M30 Approach slab** including reinforcement @ 70 kg/cum and formwork complete as per drawing and Technical specification including cost of materials, labour, HOM complete as perspecifications.MORTH Specification No.1500, 1600, 1700 & 2704(**Item no 32.7 & Page No-247)**								
	PWD Bangalore SR 2018-19 (Item no 32.7 & Page No-247)								
		Cum							
	Approch Slab		4	7.00	3.50	0.30	29.40		
	Approch Slab		2	7.50	3.50	0.30	15.75		
	Culvert Extension		2	6.00	10.00	0.30	36.00		
							Total	**81.15**	10757.88	873001.96
22	**KSRRB M2300-16.** Providing and laying Cement concrete **wearing coat** with **OPC cement design mix M30** @ 360 kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes@ 0.46cum, and reinforcement at 75 kg/cum with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 including cost of reinforcement complete as per drawing and Technical Specifications including cost of materials, labour, HOM complete as per specifications. MORTH Specification No. 2702 (Item no 32.8 & Page No 247)								

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Sl. No.	DESCRIPTION OF WORK	UNIT	Nos	L	B	D	QTY	Rate (Rs.)	Amount (Rs.)
	PWD Bangalore SR 2018-19 **(Item no 32.8 & Page No 247)**								
	Culvert	Cum							
	Culverts (2 Nos) BP-114		2	7.00	7.50	0.075	7.88		
			2	28.00	7.50	0.075	31.50		
	Culvert Extension		2	6.00	12.00	0.075	10.80		
						Total	**50.18**	11124.00	558202.32
23	**KSRB 15-15.1** : Providing and applying **painting** in two coats with plastic emulsion paint of approved brand on wall surface to give an even approved shade after thoroughly brushing the surface, free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications. With Primer (Item no 15.51.2 & Page No 119)								
	PWD Bangalore SR 2018-19 (Item no 15.51.2 & Page No 119)								
	Culvert						10.50		
	Culverts (2 Nos) BP-114	Sqm	1	7.50		1.40	~~5.29~~		
			~~2~~	~~7.50~~		~~1.15~~	~~2.65~~		
	Culvert Extension		~~2~~	~~12.00~~		~~1.15~~	~~2.65~~		
						Total	**10.50**	93.96	995.04
24	Supplying and fixing **M.S. Rectangular poles** made out of 2 equal angles of 65x65x6 mm welded together and fixed in CC (1:2:4) WITH 2 NOS 16mm dia M.S. hold fast rods each of length 25 cms. Including cost of all materials cutting, bending scaffolding wherever necessary, nicely finishing the welded joints with all lead lifts and as per the directions of the Engineer-in - charge of the work and including providing 2 coats of approved quality paint over one coat of shop painting (excluding cost of earthwork and concrete) including cost of materials, labour, HOM complete as per specifications. **(Item no 37.2 & Page No-266)**								
	PWD Bangalore SR 2018-19 (Item no 37.2 & Page No-266)								
	Considered Length 666.85	Mtr	1	267.74		2.5	669.35		
						Total	**669.35**	910.54	609469.95
25	Providing and fixing **M.S. Block pipe of 38mm** dia. of heavy guage of 14 including removing the bends, cutting the pipe, and fixing pipe in between the existing two verticle poles (M.S. rectangular poles) and spot welding the chain link with M.S. block pipe including cost of all materials wastage in cutting,and scaffolding wherever necessary with all lead and lift as directed by the Engineer-in-charge of work etc., complete including two coats of approved quality paint over one coat of shop paint, including cost of materials, labour, HOM complete as per specifications.(Item no 37.4 & Page No-266)								
	(Item no 27.4 & Page No 219)						5334.80		
	Considered Length 666.85	Mtr	2 x 4	666.85			**5334.80**	432.48	2307194.30
						Total			

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Sl. No.	DESCRIPTION OF WORK	UNIT	Nos	L	B	D	QTY		Amount (Rs.)
26	Providing **chain link fencing 50mm** size of 8 guage properly stretched between existing rectangular poles and fixed with suitable bolts & nuts, the free ends shall be welded to the pole and block pipe at top and bottom as required including cost of all materials, labour, lead and lifts and as per thedirections of the Engineer-in-charge of work including two coats of approved quality paint over one coat of shop paint, including cost of materials, labour, HOM complete as per specifications. **(Item no 37.3 & Page No-266)**								
	(PWD Bangalore SR 2018-19 Item no 37.3 & Page No-266)								
	Fencing	Sqm							
	Considered Length 666.85		1	666.85		2.50	1667.13		
						Total	**1667.13**	757.90	1263517.83
								SUB TOTAL	60,975,025.52
	Works contract GST 12% as per 2018-19 PWD BC SR Note.5 as per Govt Letter No.PWD 65								7,317,003.00
								SUB TOTAL.	68,292,028.52
	Provision for **PMC charges at 2 %** of sub total amount								1,359,000.00
								Sub Total	69,651,028.52
	Shifting of utility services, electric poles,Transformers, water supply line, UGD Lines and								348,971.48
								GRAND-TOTAL	70,000,000.00
	Rupees Seven Crore Only								

CERTIFICATE:-

1) This work spot has been inspected and the work is found to be necessary.
2) This Estimate is prepared as per C.S.R of 2018-19 KPWD Bangalore Circle SR.
3) The work proposed in this estimate is not included in any other scheme.
4) The provision were made in this estimate are necessary essential and adequate to execute the work as per site condition.
5) The above work location is coming under jurisdiction of BBMP limit.

CONSULTING ENGINEERS Bangalore

Administrative sanction for Rs. 700.00 lakh
(Rs. Seven hundred lakhs only/-
is accorded under head P.-3813
15th Finance Commission Grants
Registered as CE No. 94-20/21 Subject
to conditions contained in enclosed memo
No. 94-2020./21 Dt. 06-08-2020
AE/AEE TA CE (SWD)

Technically sanctioned for Rs. 700.00 lakhs
(Rs. Seven hundred lakhs only/-
is accorded under head P.-3813
15th Finance Commission Grants
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AE/AEE TA CE (SWD)

24/8/2020

29/8/2020

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